



## Managing animal disease risk in Australia: The impact of climate change

**Author(s):** Black PF, Murray JG, Nunn MJ

**Year:** 2008

**Journal:** Revue Scientifique Et Technique / Office International Des éPizooties. 27 (2): 563-580

### Abstract:

Climate change is one of a number of factors that are likely to affect the future of Australian agriculture, animal production and animal health, particularly when associated with other factors such as environmental degradation, intensive animal production, an increasing human population, and expanding urbanisation. Notwithstanding the harshness and variability of Australia's climate, significant livestock industries have been developed, with the majority of products from such industries exported throughout the world. A critical factor in achieving market access has been an enviable animal health status, which is underpinned by first class animal health services with a strong legislative basis, well-trained staff, engagement of industry, effective surveillance, good scientific and laboratory support, effective emergency management procedures, a sound quarantine system, and strong political support. However, enhancements still need to be made to Australia's animal health system, for example: re-defining the science-policy interface; refining foresight, risk analysis, surveillance, diagnostics, and emergency management; improving approaches to education, training, technology transfer, communications and awareness; and engaging more with the international community in areas such as capacity building, the development of veterinary services, and disease response systems. A 'one health' approach will be adopted to bring together skills in the fields of animal, public, wildlife and environmental health. These initiatives, if managed correctly, will minimise the risks resulting from global warming and other factors predisposing to disease.

**Source:** [http://web.oie.int/boutique/index.php?page=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)ficprod&id\\_prec=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)115&id\\_produit=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)704&lang=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)en&fichrech=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)1&PHPSESSID=Euro Surveillance \(Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)6bb334f9e08994fe55ba3a6cd34c935b](http://web.oie.int/boutique/index.php?page=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)ficprod&id_prec=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)115&id_produit=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)704&lang=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)en&fichrech=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)1&PHPSESSID=Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)6bb334f9e08994fe55ba3a6cd34c935b)

### Resource Description

#### Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

## Communication Audience:

audience to whom the resource is directed

Public

## Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Extreme Weather Event, Food/Water Quality, Food/Water Security, Food/Water Security, Precipitation, Temperature

**Extreme Weather Event:** Drought, Flooding, Hurricanes/Cyclones

**Food/Water Quality:** Pathogen

**Food/Water Security:** Livestock Productivity

**Temperature:** Fluctuations

## Geographic Feature:

resource focuses on specific type of geography

General Geographical Feature

## Geographic Location:

resource focuses on specific location

Non-United States

**Non-United States:** Australasia

## Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

**Infectious Disease:** Foodborne/Waterborne Disease, Vectorborne Disease, Zoonotic Disease

**Foodborne/Waterborne Disease:** Campylobacteriosis, E. coli, Fascioliasis, General Foodborne/Waterborne Disease, Salmonellosis

**Vectorborne Disease:** Tick-borne Disease

**Tick-borne Disease:** Anaplasmosis, Babesiosis

**Zoonotic Disease:** General Zoonotic Disease

## Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation

## Model/Methodology:

type of model used or methodology development is a focus of resource

# Climate Change and Human Health Literature Portal

Exposure Change Prediction

**Resource Type:**

format or standard characteristic of resource

Policy/Opinion, Research Article

**Timescale:**

time period studied

Medium-Term (10-50 years)

**Vulnerability/Impact Assessment:**

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content